SBI4U

**Final Exam - January 29, 2016**

**1:00 - 3:00 p.m.**

**Cafeteria**

There are 104 marks on the final exam.

This is the breakdown of the exam by unit and type of question:

|  |  |  |
| --- | --- | --- |
|  | Multiple Choice  (46 marks) | Short Answer  (58 marks) |
| Biochemistry (19 marks) | 6 | 13 |
| Metabolic Processes (26 marks) | 9 | 17 |
| Molecular Genetics (25 marks) | 13 | 12 |
| Homeostasis (25 marks) | 15 | 10 |
| Population Dynamics (9 marks) | 3 | 6 |

Please bring a pen, pencil (for the Scantron sheet), eraser. There are some simple calculations on the exam, and you are allowed to use a calculator.

\*\*Please bring your textbook.\*\*

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How to study:

Use the Unit In Review sheets as your guideline for what topics to study. The exam doesn't cover

EVERYTHING we've learned. Here is a list of *some* of the topics that are not on the exam:

|  |  |
| --- | --- |
|  | You do not need to study... |
| Biochemistry | -cell structures (organelles)  -structure/function of cell membrane |
| Metabolic Processes | -law of thermodynamics  -bond energy calculations  -prediction of spontaneous changes  -feedback inhibition of cellular respiration  -oxiation of lipids & proteins for energy  -structure of photosystems  -action/absorption spectrum |
| Molecular Genetics | -characteristics of eukaryotic non-coding DNA  -mutations; restriction maps  -interpreting gel electrophoresis results, PCR, microarrays  -genomics |
| Homeostasis | -thermoregulation  -pregnancy, HRT, oogenesis & spermatogenesis  -central nervous system  -functions of the various parts of the brain |
| Population Dynamics | -any of the formulas (there are no calculations) |

Use your quizzes & tests to help you review the types of questions that you might be asked.

Your textbook Self-Quiz and Chapter Review sections are also useful for extra practice.

Good luck!

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